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PREALLOCATION OF CLIENT NETWORK ADDRESS TRANSLATION ADDRESSES FOR CLIENT-SERVER NETWORKS

ABSTRACT OF THE DISCLOSURE

An improved client network address translation
("NAT") system is provided. Methods are provided for
initializing connection control blocks with the client

5 NAT addresses when a storage pool of connection control
blocks are allocated. This avoids the costly overhead as
connections are created and destroyed. Unlike the prior
art solutions, once the connection control blocks of the
present invention are allocated, they remain in effect

10 until the storage subpool is deleted. Secondly, in order
to provide as large a pool of client NAT addresses as
possible, methods are provided for using intervals to
allocate and reclaim client NAT addresses as subpools are
allocated and freed.

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